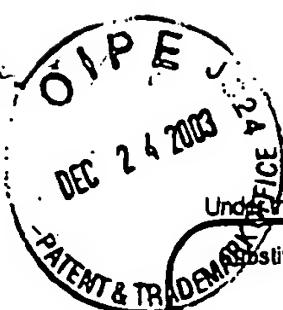


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of 1

Complete if Known

Application Number	Unassigned 10/693441
Filing Date	October 24, 2003
First Named Inventor	Wohlstadter et al.
Art Unit	Unassigned 1641
Examiner Name	Unassigned C. Chin

Attorney Docket Number 100405-02274

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
cc	AA	US-4,280,815	07-28-1981	Oberhardt, et al.	
	AB	US-4,652,533	03-24-1987	Jolley	
	AC	US-4,663,230	05-05-1987	Tennent	
	AD	US-4,826,759	05-02-1989	Guire, et al.	
	AE	US-4,891,321	01-02-1990	Hubscher	
	AF	US-5,061,445	10-29-1991	Zoski, et al.	
	AG	US-5,068,088	11-26-1991	Hall, et al.	
	AH	US-5,093,268	03-03-1992	Leventis, et al.	
	AI	US-5,098,771	03-24-1992	Friend	
	AJ	US-5,110,693	05-05-1992	Friend, et al.	
	AK	US-5,124,075	06-23-1992	Yasuda, et al.	
	AL	US-5,147,806	09-15-1992	Kamin, et al.	
	AM	US-5,165,909	11-24-1992	Tennent, et al.	
	AN	US-5,171,560	12-15-1992	Tennent	
	AO	US-5,189,549	02-23-1993	Leventis, et al.	
	AP	US-5,194,133	03-16-1993	Clark, et al.	
	AQ	US-5,221,605	06-22-1993	Bard, et al.	
	AR	US-5,238,808	08-24-1993	Bard, et al.	
	AS	US-5,240,863	08-31-1993	Shibue, et al.	
	AT	US-5,247,243	09-21-1993	Hall, et al.	
	AU	US-5,296,191	03-22-1994	Hall, et al.	
	AV	US-5,304,326	04-19-1994	Goto, et al.	
	AW	US-5,308,754	05-03-1994	Kankare, et al.	
	AX	US-5,310,687	05-10-1994	Bard, et al.	
	AY	US-5,324,457	06-28-1994	Zhang, et al.	
	AZ	US-5,340,716	08-23-1994	Ullman, et al.	
	AAA	US-5,418,171	05-23-1995	Kimura, et al.	
	ABB	US-5,466,416	11-14-1995	Ghaed, et al.	
	ACC	US-5,468,606	11-21-1995	Bogart, et al.	
	ADD	US-5,492,840	02-20-1996	Malmqvist, et al.	
	AEE	US-5,527,710	08-18-1996	Nacamulli, et al.	
	AFF	US-5,591,581	01-07-1997	Massey, et al.	
	AGG	US-5,632,957	05-27-1997	Heller, et al.	
↓	AHH	US-5,776,672	07-07-1998	Hashimoto, et al.	
cc	AII	US-6,413,783	07-02-2002	Wohlstadter, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				
cc	BA	PCT	WO 90/05301	05-17-1990	Shah, H.P., et al.		
	BB	PCT	WO 90/14221	11-29-1990	Bening, R.C., et al.		
	BC	PCT	WO 92/14139	08-20-1992	Leland, J.K., et al.		
	BD	PCT	WO 96/06946	03-07-1996	Bard, A.J., et al.		
	BE	PCT	WO 96/39534	12-12-1992	Martin, M.		
↓	BF	EP	0 478 319 A1	04-01-1992	Hashimoto, K., et al.		
cc	BG	EP	0 522 677 A1	01-13-1003	Shibue, A., et al.		

Examiner Signature

C. Chin

Date Considered

6/17/05

P E
DEC 24 2003 JC2

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PATENT & TRADEMARK OFFICE
Substitute for form 1449B/PTO**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1 of 5

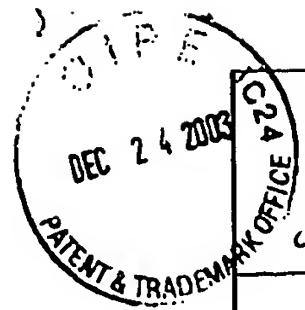
Complete if Known

Application Number	Unassigned
Filing Date	October 24, 2003
First Named Inventor	Wohlstadter et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned

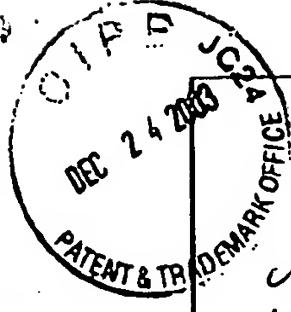
Attorney Docket Number 100405-02274

NON PATENT LITERATURE DOCUMENTS

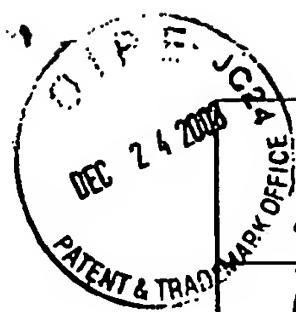
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ee	CA	Abbott, N.L. and Whitesides, G.M., "Potential-Dependent Wetting of Aqueous Solutions on Self-Assembled Monolayers Formed from 15-(Ferrocenylcarbonyl) pentadecanethiol on Gold," <i>Langmuir</i> 10(5): 1493-1497 (1994).	
	CB	Abbott, N.L., <i>et al.</i> , "Manipulation of the Wettability of Surfaces on the 0.1 - to 1- Micrometer Scale Through Micromatching and Molecular Self-Assembly," <i>Science</i> 257: 1380-1382 (1992).	
	CC	Abbott, N.L., <i>et al.</i> , "Using Micromachining, Molecular Self-Assembly, and Wet Etching to Fabricate 0.1-1μm-Scale Structures of Gold and Silicon," <i>Chem. Mater.</i> 6(5): 596-602 (1994).	
	CD	Adalsteinsson, O., <i>et al.</i> , "Preparation and Magnetic Filtration of Polyacrylamide Gels Containing Covalently Immobilized Proteins and a Ferrofluid," <i>J. Mol. Catal.</i> 6(3): 199-225 (1979).	
	CE	Bain, C.D. and Whitesides, G.M., "Modeling Organic Surfaces with Self-Assembled Monolayers," <i>Angew. Chem.</i> 101(4): 522-528 (1989).	
	CF	Bains, W., "Setting a Sequence to Sequence a Sequence," <i>Bio/Technology</i> 10: 757-758 (1992).	
	CG	Chaudhury, M.K. and Whitesides, G.M., "Correlation Between Surface Free Energy and Surface Constitution," <i>Science</i> 255: 1230-1232 (1992).	
ee	CH	Chaudhury, M.K. and Whitesides, G.M., "How To Make Water Run Uphill," <i>Science</i> 256: 1539-1541 (1992).	
ee	CI	Deaver, D.R., "A New Non-Isotopic Detection System for Immunoassays," <i>Nature</i> 377: 758-760 (1995).	



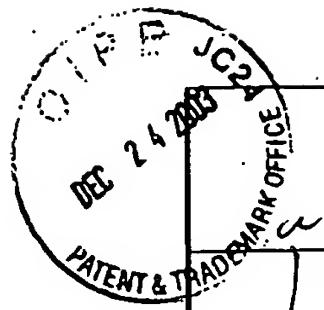
	CJ	DiMilla, P.A., et al., "Wetting and Protein Adsorption of Self-Assembled Monolayers of Alkanethiolates Supported on Transparent Films of Gold," <i>J. Am. Chem. Soc.</i> 116(5): 2225-2226 (1994).	
	CK	Dresselhaus, M.S., Dresselhaus, G., and Eklund, P.C., <u>Science Of Fullerenes And Carbon Nanotubes</u> , Academic Press, San Diego, CA (1996).	
	CL	Ferguson, G.S., et al., "Monolayers on Disordered Substrates: Self-Assembly of Alkyltrichlorosilanes on Surface-Modified Polyethylene and Poly(dimethylsiloxane)," <i>Macromolecules</i> 26: 5870-5875 (1993).	
	CM	Ferguson, G.S., et al., "Contact Adhesion of Thin Gold Films on Elastomeric Supports: Cold Welding Under Ambient Conditions," <i>Science</i> 253: 776-778 (1991).	
	CN	Gershon, P.D. and Khilko, S., "Stable Chelating Linkage for Reversible Immobilization of Oligohistidine Tagged Proteins in the BIACore Surface Plasmon Resonance Detector," <i>J. Immunol. Methods</i> 183: 65-76 (1995).	
	CO	Haapakka, K.E., "The Mechanism of the Cobalt(II)-Catalyzed Electrogenerated Chemiluminescence of Luminol in Aqueous Alkaline Solution," <i>Anal. Chim. Acta</i> 141: 263-268 (1982).	
	CP	Hickman, J.J., et al., "Molecular Self-Assembly of Two-Terminal Voltametric Microsensors with Internal References," <i>Science</i> 252: 688-691 (1991).	
	CQ	<u>Hydrogels In Medicine And Pharmacy</u> , Vols. I-III. Peppas, N.A., Ed.. CRC Press: Boca Raton, Florida (1987).	
	CR	Itaya, K. and Bard, A.J., "Chemically Modified Polymer Electrodes: Synthetic Approach Employing Poly(methacryl chloride) Anchors," <i>Anal. Chem.</i> 50(11): 1487-1489 (1978).	
	CS	Kaneko, E., <u>Liquid Crystal TV Displays: Principles And Applications Of Liquid Crystal Displays (Advances in Optoelectronics, No. 2)</u> . KTK Scientific Publishers, Tokyo; D. Reidel Publishing Co., Dordrecht. Chapter 2: 3-32 (1987).	
	CT	Kim, E., et al., "Polymer Microstructures Formed by Moulding in Capillaries," <i>Nature</i> 376: 581-584 (1995).	
↓ ↔	CU	Knight, A.W. and Greenway, G.M., "Occurrence, Mechanisms and Analytical Applications of Electrogenerated Chemiluminescence," <i>Analyst</i> 119: 879-890 (1994).	



	CV	Kumar, A. and Whitesides, G.M., "Features of Gold Having Micrometer to Centimeter Dimensions Can Be Formed Through a Combination of Stamping with an Elastomeric Stamp and an Alkanethiol 'Ink' Followed by Chemical Etching," <i>Appl. Phys. Lett.</i> 63(14): 2002-2004 (1993).	
	CW	Kumar, A., <i>et al.</i> , "Patterning Self-Assembled Monolayers: Applications in Materials Science," <i>Langmuir</i> 10: 1498-1511 (1994).	
	CX	Laibinis, P.E., <i>et al.</i> , "Orthogonal Self-Assembled Monolayers: Alkanethiols on Gold And Alkane Carboxylic Acids on Alumina," <i>Science</i> 245: 845-847 (1989).	
	CY	Leland, J.K. and Powell, M.J., "Electrogenerated Chemiluminescence: An Oxidative-Reduction Type ECL Reaction Sequence Using Tripropyl Amine," <i>J. Electrochem. Soc.</i> 137: 3127-3131 (1990).	
	CZ	Martin, A.F. and Nieman, T.A., "Glucose Quantitation Using an Immobilized Glucose Dehydrogenase Enzyme Reactor and a Tris(2,2'-bipyridyl)ruthenium (II) Chemiluminescent Sensor," <i>Anal. Chim. Acta</i> 281: 475-481 (1993).	
	CAA	Martin, A.F. and Nieman, T.A., "Chemiluminescence Biosensors Using Tris (2,2'-bipyridyl)ruthenium(II) And Dehydrogenases Immobilized in Cation Exchange Polymers," <i>Biosensors & Bioelect.</i> 12(6): 479-489 (1997).	
	CBB	<u>Methods in Enzymology. Volume 135. Immobilized Enzymes And Cells. Pt. B.</u> Mosbach, K., Ed. Academic Press: Orlando, Florida; Elsevier Applied Science: London (1987).	
	CCC	<u>Methods in Enzymology. Volume 136. Immobilized Enzymes And Cells. Pt. C.</u> Mosbach, K., Ed. Academic Press: Orlando, Florida; Elsevier Applied Science: London (1987).	
	CDD	Nielsen, P.E., "DNA Analogues with Nonphosphodiester Backbones," <i>Ann. Rev. Biophys. Biomol. Struct.</i> 24: 167-183 (1995).	
	CEE	Obeng, Y.S. and Bard, A.J., "Electrogenerated Chemiluminescence. 53. Electrochemistry and Emission from Adsorbed Monolayers of a Tris(bipyridyl)ruthenium(II)-Based Surfactant on Gold and Tin Oxide Electrodes," <i>Langmuir</i> 7(1): 195-201 (1991).	
	CFF	Olah, G.A., <i>et al.</i> , "Polymer Films on Electrodes. 4. Nafion-Coated Electrodes and Electrogenerated Chemiluminescence of Surface-Attached Ru(bpy) ₃ ²⁺ ," <i>J. Am. Chem. Soc.</i> 102: 6641-6642 (1980).	
↓ CGG	CGG	Pale-Grosdemange, C., <i>et al.</i> , "Formation of Self-Assembled Monolayers by Chemisorption of Derivatives of Oligo (ethylene glycol) of Structure HS(CH ₂) ₁₁ (OCH ₂ CH ₂) _m OH on Gold," <i>J. Am. Chem. Soc.</i> 113(1): 12-20 (1991).	



	CHH	Pollack, A., et al., "Enzyme Immobilization by Condensation Copolymerization into Cross-Linked Polyacrylamide Gels," <i>J. Am. Chem. Soc.</i> 102(20): 6324-6336 (1980).	
	CII	<u>Poly(ethylene Glycol) Chemistry: Biotechnical and Biomedical Applications</u> , Harris, J.M., Ed. Plenum Press: New York (1992).	
	CJJ	<u>Polymer Applications For Biotechnology: Macromolecular Separation And Identification</u> . Soane, D.S., Ed. Prentice Hall: Englewood Cliffs, N.J. (1992).	
	CKK	Prime, K.L., and Whitesides, G.M., "Adsorption of Proteins onto Surfaces Containing End-Attached Oligo (ethylene oxide): A Model System Using Self-Assembled Monolayers," <i>J. Am. Chem. Soc.</i> 115(23): 10714-10721 (1993).	
	CLL	Prime, K.L. and Whitesides, G.M., "Self-Assembled Organic Monolayers: Model Systems for Studying Adsorption of Proteins at Surfaces," <i>Science</i> 252: 1164-1167 (1991).	
	CMM	Rubinstein, I. and Bard, A.J., Polymer Films on Electrodes. 4. Nafion-Coated Electrodes and Electrogenerated Chemiluminescence of Surface-Attached Ru(bpy) ₃ ²⁺ ," <i>J. Am. Chem. Soc.</i> 102: 6641-6642 (1980).	
	CNN	Rubinstein, I. and Bard, A.J., "Polymer Films on Electrodes. 5. Electrochemistry and Chemiluminescence at Nafion-Coated Electrodes," <i>J. Am. Chem. Soc.</i> 103(17): 5007-5013 (1981).	
	COO	Sassenfeld, H.M., "Engineering Proteins for Purification," <i>TIBTECH</i> 8: 88-93 (1990).	
	CPP	<u>Solid Phase Biochemistry: Analytical And Synthetic Aspects</u> . Scouten, W.H., Ed. J. Wiley & Sons, NY (1993).	
	CQQ	Spinke, J., et al., "Molecular Recognition at Self-Assembled Monolayers: Optimization of Surface Functionalization," <i>J. Chem. Phys.</i> 99(9): 7012-7019 (1993).	
	CRR	Spinke, J., et al., "Molecular Recognition at Self-Assembled Monolayers: The Construction of Multicomponent Multilayers," <i>Langmuir</i> 9(7): 1821-1825 (1993).	
	CSS	Strezoska, Z., et al., "DNA Sequencing by Hybridization: 100 Bases Read by a Non-Gel-Based Method," <i>Proc. Natl. Acad. Sci. USA</i> 88: 10089-10093 (1991).	
	CTT	Sundberg, S.A., et al., "Spatially-Addressable Immobilization of Macromolecules on Solid Supports," <i>J. Am. Chem. Soc.</i> 117(49): 12050-12057 (1995).	
✓ or	CUU	Tampion, J. and Tampion, M.D., <u>Immobilized Cells: Principles And Applications</u> . Cambridge Univ. Press, Cambridge, U.K. (1987).	



	CVV	Wilbur, J.L., et al., "Scanning Force Microscopies Can Image Patterned Self-Assembled Monolayers," <i>Langmuir</i> 11(3): 825-831 (1995).	
	CWW	Wilson, R., et al., "Electrochemiluminescence Detection of Glucose Oxidase as a Model for Flow Injection Immunoassays," <i>Biosensors & Bioelec.</i> 11(8): 805-810 (1996).	
	CXX	Xu, X.-H. and Bard, A.J., "Electrogenerated Chemiluminescence. 55. Emission from Adsorbed Ru(bpy) ₃ ²⁺ on Graphite, Platinum, and Gold," <i>Langmuir</i> 10(7): 2409-2414 (1994).	
	CYY	Xu, X.-H., et al., "Immobilization of DNA on an Aluminum (III) Alkanebisphosphonate Thin Film with Electrogenerated Chemiluminescent Detection," <i>J. Am. Chem. Soc.</i> 116(18): 8386-8387 (1994).	
	CZZ	Yang, H., et al., "Electrochemiluminescence: A New Diagnostic and Research Tool," <i>Bio/Technology</i> 12: 193-194 (1994).	
↓ cc	CAAA	Zhang, X. and Bard, A.J., "Electrogenerated Chemiluminescent Emission from an Organized (L-B) Monolayer of a Ru(bpy) ₃ ²⁺ -Based Surfactant on Semiconductor and Metal Electrodes", <i>J. Phys. Chem.</i> 92(2): 5566-5569 (1988).	

Examiner
Signature

C. El.

Date
Considered

6/17/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES FOR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1800-PTO-9199 and select option 2



MAR 15 2004

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/693,441
(Use as many sheets as necessary)				Filing Date	October 24, 2003
				First Named Inventor	Wohlstadter et al.
				Art Unit	1743
				Examiner Name	Unassigned
Sheet 1		of 1	Attorney Docket Number 100405-02274		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
cc	AA	US-4,390,405	06-28-1983	Hahn, et al.	
	AB	US-4,541,908	09-17-1985	Niki, et al.	
	AC	US-5,002,652	03-26-1991	Nelson, et al.	
	AD	US-5,149-630	09-22-1992	Forrest, et al.	
	AE	US-5,492,735	07-04-1995	Johnson, et al.	
	AF	US-5,520,787	05-28-1996	Hanagan, et al.	
	AG	US-5,643,721	07-01-1997	Spring, et al.	
	AH	US-5,886,434	02-02-1999	Massey, et al.	
	AI	US-6,066,448	05-23-2000	Wohlstadter, et al.	
	AJ	US-6,090,545	07-18-2000	Wohlstadter, et al.	
cc	AK	US-6,140,045	10-31-2000	Wohlstadter, et al.	
cc	AL	US-6,207,369	03-27-2001	Wohlstadter, et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)			
					T ⁶

Examiner Signature	C. Chiu	Date Considered	6/17/05
--------------------	---------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.